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APPLICATION NO.	1	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,234 02/11/2002		02/11/2002	Kyung Bae Kwak	2671-0115P	9478
2292	7590	05/28/2004		EXAM	INEX
BIRCH ST PO BOX 7-		KOLASCH & B	VERSTEEQ,	STEVEN H	
		A 22040-0747		ART UNIT	PAPER NUMBER
				1753	

DATE MAILED: 05/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
~	10/049,234	KWAK, KYUNG BAE			
Office Action Summar	Y Examiner	Art Unit			
	Steven H VerSteeg	1753			
The MAILING DATE of this con Period for Reply	nmunication appears on the cover sheet w	ith the correspondence address			
after SDX (6) MONTH'S from the mailing date of the if the period for reply specified above is less than 1 if NO period for reply is specified above, the main Failure to reply within the set or extended period it Any reply received by the Offse later their three m carned patent term adjustment. See 37 CFR 1,70	visions of 37 CFR 1,136(a). In no event, however, may a r communication. hinty (30) days, a reply within the statutory minimum of this num statutory period will apply and will expire SEX (6) MOH or reply will, by statute, cause the optication to become Al onthe sider the mailing date of this communication, even if	ny (30) days will be considered timely. VTHS from the mailing date of this communication. BANDONED (35 U.S.C. 8 133).			
Status					
 Responsive to communication(s) filed on <u>17 May 2004</u> .				
2a) This action is FINAL.	2b) ☐ This action is non-final.				
 Since this application is in cond 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the p	practice under Ex parte Quayle, 1935 C.E	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 1-16 is/are pending in	the application.				
4a) Of the above claim(s)	is/are withdrawn from consideration				

5) Claim(s) 1-6 and 8-16 is/are allowed. 6) Claim(s) 7 is/are rejected.

7) Claim(s) is/are objected to.

Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on is/are; a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ⊠ All b) □ Some * c) □ None of:

1, Certified copies of the priority documents have been received.

Certified copies of the priority documents have been received in Application No.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)	
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	 Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other: .

Application/Control Number: 10/049,234 Art Unit: 1753

DETAILED ACTION

Specification

 The disclosure is objected to because of the following informalities: "as" needs inserted before "an" on page 2 at line 28; and "to" needs inserted before "a" on page 3 at line 12.
 Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention
- Claim 7 recites the limitation "the electron gun" in line 1. There is insufficient
 antecedent basis for this limitation in the claim.
- I recommend changing claim 7 to depend from claim 3 to overcome the rejection.
 Allowable Subject Matter
- 6 Claims 1-6 and 8-16 are allowed
- Claim 7 would be allowable if rewritten to overcome the rejection(s) under 35
 U. S. C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: it is neither anticipated nor obvious over the prior art of record to have a lighting equipment for generating anions to purify air as claimed by Applicant in claim 1. It is also neither anticipated

nor obvious over the prior art of record to have a method of providing air purification using a lighting equipment having a housing engaged with at least one illumination unit as claimed by Applicant in claim 9.

- US 6,713,026 B2 to Taylor et al. (Taylor) discloses an air purification apparatus and a
 method for using it. The apparatus does not have an illumination unit engaged with a housing.
- 10. US 6,464,499 B1 to Lu discloses a sterilizing wastewater treatment method and apparatus for a dental clinic. There is a lamp present. The apparatus does not have an emitting aperture with a plurality of holes for exhaustine the generated anions.
- Combining Taylor and Lu would result in all of Applicant's claimed limitations, but there
 is no motivation to combine the air purification apparatus and method of Taylor with the
 wastewater treatment method and apparatus of Lu unless hindsight reasoning is used.

General Information

For general status inquiries on applications not having received a first action on the merits, please contact the Technology Center 1700 receptionist at (571) 272-1700.

For inquiries involving Recovery of lost papers & cases, sending out missing papers, resetting shortened statutory periods, or for restarting the shortened statutory period for response, please contact Denis Boyd at (571) 272-0992.

For general inquiries such as fees, hours of operation, and employee location, please contact the Technology Center 1700 receptionist at (571) 272-1300. Application/Control Number: 10/049,234 Art Unit: 1753

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven H VerSteeg whose telephone number is (571) 272-1348. The examiner can normally be reached on Mon - Thurs (6:30 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published applications
may be obtained from either Private PAIR or Public PAIR. Status information for unpublished
applications is available through Private PAIR only. For more information about the PAIR
system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR
system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven H VerSteeg Primary Examiner Art Unit 1753

shv May 25, 2004